140

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PREFACE

This index lists all the reviews in Volumes 29 through 44 of Mathematical Reviews, which were published from 1965 through 1972. In many respects it is similar to the earlier cumulative indexes of Mathematical Reviews, namely the 20 *year author index of Mathematical Reviews*, 1940-1959, and the *Author index of Mathematical Reviews*, 1960-1964 (*Volumes* 21-28), published by the American Mathematical Society, Providence, R. I., in 1961 and 1966, respectively. However, there are some substantial differences, which are pointed put in the detailed explanation immediately following.

1. ALPHABETICAL ORDER

Reviewed items are listed alphabetically by author; items having several authors are listed in full under each author (this was not done in the earlier cumulative indexes). Surnames consisting of more than one part (e.g., de Branges, van der Corput) are listed under the first capital letter. Collections, proceedings and other similar publications that may have editors but do not have specific authors are given alphabetically by title in a separate list (corresponding to the key-word index in the monthly issues and the volume-index issues of Mathematical Reviews) following the list of authors (this also was not done in the earlier cumulative indexes). Individual articles in a collection are listed independently, under the names of their authors, if they were reviewed separately.

2. CROSS-REFERENCES

There are four kinds of cross-references in this index.

(a) *Name variations.*

The use of primary names in Mathematical Reviews was described in the Foreword to the 5-year index to Volumes 21-28 mentioned above. All items by a given author are listed under that author's primary name and cross-references to the primary form are given from any other forms of the author's name that have been used in items reviewed in Volumes 29 through 44 of Mathematical Reviews. These variations are not listed in parentheses after the primary name as they were in the earlier cumulative indexes. Similarly, the use of '=' in this context has been discontinued.

(b) *Authors in other capacities.*

If a reviewed item is clearly connected with a person who is not its author (e.g., an obituary, an article by one author that very specifically relates to the work of another, a book or collection edited by someone who is not its author, etc.) then a cross-reference to the primary name of the author of the item in question, or to the title of the latter if it has no specific author, is listed in the position that the item would have occupied had the person with whom it is connected been its author. This procedure was used to only a very limited extent in the earlier cumulative indexes.

(c) *Key-word entries.*

Certain collections that are listed under their titles, as described in Section 1 above, are also listed under other headings. For example, the publication entitled *Proceedings of the Symposium on Theory and Applications of Generalized Inverses of Matrices* is listed under the full title and also under the headings 'Generalized inverses of matrices' and 'Symposium on theory and application of generalized inverses of matrices'. These listings are not true cross-references, since a complete entry appears under each heading. However, there are such 'key-word entries' that are cross-references: e.g., a cross-reference will normally be listed under the heading 'Bibliography' to, say, an obituary notice that contains an extensive bibliography (the cross-reference will be given to the author of the article, not its subject, or to the title if the author is not known; the subject will receive a cross-reference of the kind described in Section 2(b) above, i.e., in the appropriate place among his or her publications.) The comment that concludes Section 2(b) also applied here.

(d) *Errata.*

If an erratum receives a review separate from that of the original item then it will be listed in the usual way, but the listing for the original item will end with the letter E in parentheses: (E). This indicates the presence of a listing for an erratum, correction, comment, etc. among the subsequent entries (in this connection see also the remark on the occurrence of two review numbers in one entry, near the end of Section 3 below). This procedure was not used in the earlier cumulative indexes.

3. ARRANGEMENT OF ENTRY

The entries under a given heading (i.e., the primary name of an author, or a title) are listed in order of nominal publication dates; this includes the cross-references described in Section 2(b) above. For this purpose co-authored items are treated on the same basis as those written by the author alone.(This is a major difference between the arrangement in this index and that in the earlier cumulative indexes: in the latter, entries under a given heading were grouped into singly-authored items, doubly-authored items, etc., alphabetical and chronological subgroupings then being used within each group.)

The arrangement of each title entry is that of the heading of the original review in Mathematical Reviews. Titles in English, French, German and Italian are given as they appeared in the original, with no embellishments except for the mention of summaries in languages other than that of the item in question and, occasionally, of items such as discussion, comments, etc. Article titles in languages other than those mentioned are given in English translation (with the language of the original following in parentheses and accompanied by the mention of summaries in other languages). Book and monograph titles in languages other than those mentioned are given in the original language, the title being followed by the language of the original, in parentheses, and this being followed by an English translation of the title, in brackets.

The general form for title entries is as follows:

Books, Monographs: Title. (Language of original [if necessary]) [English translation of title [if necessary]] Miscellaneous information (edition, editors, translators, series, etc.). Publisher, city, date. Pagination. (Reviewer's name) Review number.

Journal article: Title of article. (Language of original [if necessary]. Summaries in languages other than the original [if necessary]) Journal abbreviation (series number) volume number (volume number in first series if given) (nominal date), issue number [if necessary], first page-last page (imprint date). (Reviewer's name) Review number.

The first part of the review number refers to the volume in which the review was published and the second part refers to its number within the volume. If there are two review numbers following an entry, the second one is usually an erratum. (Note: for the abbreviations of journal titles refer to the volume-index issues of the period in question.)

4. TRANSLITERATION

The transliteration of names and titles in Russian follows the scheme that has been used by Mathematical Reviews since 1962, and appropriate variants are used for Bulgarian, Macedonian, Serbian and Ukrainian.

The primary forms of Chinese names of authors who have published mainly in Chinese are those that result from the Wade-Giles romanization, the forms resulting from the Pinyin romanization being listed with cross-references to the corresponding primary forms. (See also Section 5 below and, for a more complete discussion of this rather involved matter, see pp. iv-vi of the Foreword to the *Author index of Mathematical Reviews*, 1960-1964 (*Volumes* 21-28), mentioned above).

5. NAMES OF CHINES AUTHORS

The name of a Chinese author whose primary name has been determined as described in Section 4 above (i.e., who has not published mainly in Western journals) is placed in the index as though it were a single word. For example, the name Hua Luo-geng is not listed as though the author's name were L. Hua (in Western form) but as though it were Hualuogeng.

Note that there are really two errors in this procedure. For this and other reasons, in future indexes this name will appear as Hua, Luo Geng, and it will be listed as though the author's name were L. G. Hua(in Western form).

6. SUPPLEMENTARY ITEMS

This index was produced by typewriter composition in the Mathematical Reviews office, from the regular card files. For this reason some items that were missed during typing could not easily be inserted in their correct places later. They are to be found in the supplementary pages that conclude each of the four volumes. The places that these entries should have occupied are marked by the sign } at the appropriate points in the margins of the pages in question; each such page also carries a footnote drawing attention to the omission.

7. CONCLUSION

In an undertaking of this size some errors are inevitable, despite elaborate precautions and checks. The editors of Mathematical Reviews would be very glad to have their attention drawn to errors in this index and also in the earlier cumulative indexes.

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On period relations in Babylonian astronomy. *Centaurus* 10 (1965), 213-231. (O. Schmidt) 34 #2402

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Two atypical multiplication tables from Uruk. *J. Cuneiform Studies* 22 (1968/69), *no.* 3-4, 88-91. (G. J. Toomer) 41 #8193

Some lunar auxiliary tables and related texts from the late Babylonian period. *Mat.-Fys. Medd. Danske Vid. Selsk.* 36, *no.* 12, 39 *pp. (5 plates)* (1968). (G. J. Toomer) 38 #7

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A computed list of new moons for 319 B.C. to 316 B.C. from Babylon: B.M. 40094. *Mat.-Fys. Medd. Danske Vid. Selsk.* 37, *no.* 3, 25 *pp. (1 plate)* (1969). (G. J. Toomer) 39 #5290

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Induced representations of groups. (Norwegian. English summary) *Nordisk Mat. Tidskr.* 17 (1969), 109-123, 175. (Author's summary) 41 #1925

Continuity of group representations, with applications to C^*-algebras. *J. Functional Analysis* 5 (1970), 14-36. (V. K. Balachandran) 41 #393

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A characterization of strong inductive dimension. *Fund. Math.* 70 (1971), *no.* 2, 147-155. (K. Nagami) 44 #2213

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